



30 October, 2020

CONSULTING ENGINEERS LTD.

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Blue Building Solutions Ltd.,
63 Hull Road
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Attention: J Johnston

Dear James,

re: VB20 ventilated batten, Load tests

We have observed concentrated load tests on a number of samples of nominally 20 mm thick black plastic vented batten strips. The tests occurred on 1 October 2020 at the Huntly Metal Roof Manufacturer's (MRM) test facility.

The MRM report number 10/2020/VBS accurately records the results of the tests we witnessed, with point load resistances exceeding 1.32 kN. Initial buckling of the cell walls occurred at slightly lower loads than the target 1.32 kN. After loading to 1.32 kN any deformation was almost totally recovered on unloading, and any residual deformation would not impair ventilation. We agree with the conclusions drawn by MRM.

The minimum load requirement of 1.32 kN is derived from the 1.1 kN point live load (AS/NZS 1170.1) for a roof, increased by a sampling factor of 1.2 to allow for test variability and number of units tested (AS/NZS 1170.0 Appendix B)

The test load was applied by hydraulic jack via a 100 mm diameter circular rubber faced steel disk to the roofing surface, above the purlin. The width of the strips was nominally 45 mm.

Yours faithfully,

J T Dale
Director
on behalf of JD Consulting Engineers Ltd.

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